Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method for detecting clones (unauthorized duplicate identities) of the client, the method comprising:

forwarding a first signal from a client to a KDC, the first signal for requesting access to a server;

verifying that the client is authorized to access the server;

transmitting a ticket from the KDC to the client, the ticket for providing access to the server, wherein the ticket is valid for a time T;

receiving a second signal from an entity, the second signal for requesting access to the server, wherein the entity has identifying information identical to the client; and

if the second request is received prior to expiration of the time T, either marking the entity as a possible clone or denying the second request in order to prevent access to the server for further investigation while granting access to the server.

- 2. (Original) The method of claim 1 further comprising providing a session key in the ticket, the session key being valid for a designated duration.
- 3. (Original) The method of claim 2 wherein the designated duration is for determining the time T for which the ticket is valid.
 - 4. (Canceled)
- 5. (Currently amended) The system of claim [4] 18 wherein the entity is a clone.
- 6. (Original) The system of claim 5 wherein the identifying information is a client identifier copied by the clone.

- 7. (Currently amended) The system of claim [4] 18 wherein the ticket further comprises an encrypted session key.
 - 8. (Original) The system of claim 7 further comprising the client deriving a copy of the session key for accessing the application server.
- 9. (Original) The system of claim 8 wherein the session key is derived using a key agreement algorithm.
- 10. (Original) The system of claim 9 wherein the key agreement algorithm is the Diffie-Hellman algorithm.
- 11. (Original) The method of claim 1 further comprising using a key algorithm for authenticating communication between the KDC and the client such that all clients wishing access to the server are required to contact the KDC.
 - 12. (Currently amended) The method of claim [4] 1 further comprising requiring all entities wishing to access the server to communicate with the KDC.
- 13. (Original) A system for detecting clones (duplicate identities) of an authorized computing device in a communication network, the system comprising:

a first computing device;

a second computing device authorized to access the first computing device;

a key management means for providing to the second computing device, a session key for accessing the first computing device, the session key being invalid after a period T;

the key management means receiving one or more requests from an entity, to access the first computing device, the entity having identifying information identical to the second computing device; and

the key management means permitting the entity to access the first computing device, provided the number of access requests received during period T, is M or less requests.

- 14. (Original) The system of claim 13 wherein the key management means utilizes Diffie-Hellman key agreement algorithm to distribute session keys.
 - 15. (Original) The system of claim 13 further comprising

the key management means flagging the entity if more than M requests are received from the entity.

- 16. (Original) The system of claim 13 wherein the identifying information is an identifier for the second computing device.
- 17. (Original) The system of claim 13 further comprising the key management means denying access to the first computing device, if more than M requests are received.
- 18. (Currently amended) A system for detecting clones of a client within a communication network, the system comprising:

a KDC;

a server communicably coupled to the KDC;

a client for receiving a ticket from the KDC, wherein the ticket is for accessing the server, and is valid for a time duration T;

the server receiving from the client a first request to access the server, the first request being accompanied by the ticket;

the server recording the time duration T for which ticket is valid;

the server receiving from an entity, a second request to access the server, the entity having identifying information identical to the client and;

the server either flagging or denying the second request to prevent access to the server, if the second request is received during the time duration T, as a possible fraudulent request from a clone while allowing access; and

the server thereafter denying the second request if received more than a predetermined number of times during the time duration T.

- 19. (Original) The system of claim 18 further comprising the KDC encrypting a session key within the ticket; and the client extracting a copy of the session key in a manner that no entity other than the client can access the session key.
- 20. (Original) The system of claim 18 further comprising necessitating by the system, all clients wishing to access the server to communicate with the KDC.
- 21. (Currently amended) The **method** system of claim 18 wherein a ticket granting server is the server, and the ticket is a ticket granting ticket.
- 22. (Currently amended) A method for detecting clones in a communication network, the method comprising:

providing a ticket to an authorized client, the ticket for accessing a KDC, the ticket having a session key valid for a time duration T;

receiving a request to access the KDC, the request being received from an entity with the same identifying information as the authorized client; and

if the request is received during time T, flagging the entity as a possible clone or while granting access to the KDC, and thereafter denying the request to access to the KDC if the request is received more than a predetermined number of times.

- 23. (Original) The method of claim 22 wherein the ticket is a TGT (ticket granting ticket).
- 24. (Original) The method of claim 1 wherein the KDC marks the entity as a possible clone or denies the second request in order to prevent access to the server.
- 25. (Original) The method of claim 1 wherein the server marks the entity as a possible clone or denies the second request in order to prevent access to the server.

- 26. (Currently amended) The method of claim [18] 1 wherein the KDC is the server.
- 27. (New) The method of claim 1, wherein if, during investigation, the second signal is received a predetermined number of times prior to expiration of the time T, the second request is thereafter denied in order to prevent access to the server.